

**Ackerman, Joyce**

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**From:** Jackie Rowley <JRowley@Geosyntec.com>  
**Sent:** Friday, March 30, 2018 5:00 PM  
**To:** Ackerman, Joyce  
**Subject:** RE: Please review the samples I am taking for TCLP  
**Attachments:** Roll-Off Bin Stratus.xlsx

Joyce,

I intend to sample:

- CHRT27421 and CHRT24778 for TCLP VOC and TCLP Metals,
- PT3017-2, PT5630, for TCLP Metals, and
- CHRT25461, DRT4900, RTR4543-2, CHRT26830, PT2452, CHRT27438 and CHRT26004 for TCLP VOC's

I think you might be looking at an older version of the table? Attached is the one I'm working off of. Please let me know if you see inconsistencies in this table!

Cheers,  
Jackie Rowley

**From:** Ackerman, Joyce [mailto:Ackerman.Joyce@epa.gov]  
**Sent:** Friday, March 30, 2018 4:39 PM  
**To:** Jackie Rowley <JRowley@Geosyntec.com>  
**Subject:** RE: Please review the samples I am taking for TCLP

Hi Jackie – Two more comments:

In the gray-shaded rows, PT 2489 and CHRT 26830 look like they already had the TCLP test and passed. They probably belong in the white-shaded rows as "TCLP passed" and not grouped with the ones that still need TCLP.

I will continue reviewing the tables in the next few days, especially the ones that could potentially remain on-site, and get back to you.

Thanks!

Joyce

**From:** Ackerman, Joyce  
**Sent:** Friday, March 30, 2018 2:55 PM  
**To:** Jackie Rowley <JRowley@Geosyntec.com>  
**Subject:** RE: Please review the samples I am taking for TCLP

Hi Jackie – I am continuing to go through the tables but I'm not done yet. Two questions so far:

1. What do you propose to do for the gray-shaded drums in rows 16-24 (not counting row 19)? Do you plan to sample them for TCLP on Monday?
2. In the white-shaded row 7 (DRT 4719) – I could not find any TCLP results. If there aren't any, I would propose this one for TCLP sampling.

I will continue to go through the tables and get back to you. Thanks!

Joyce

**From:** Jackie Rowley [<mailto:JRowley@Geosyntec.com>]  
**Sent:** Thursday, March 29, 2018 11:59 AM  
**To:** Ackerman, Joyce <[Ackerman.Joyce@epa.gov](mailto:Ackerman.Joyce@epa.gov)>  
**Subject:** RE: Please review the samples I am taking for TCLP

Attached.

**From:** Jackie Rowley  
**Sent:** Thursday, March 29, 2018 11:58 AM  
**To:** 'Ackerman, Joyce' <[Ackerman.Joyce@epa.gov](mailto:Ackerman.Joyce@epa.gov)>  
**Subject:** Please review the samples I am taking for TCLP


Hey Joyce,

You will find in the column, "These bins need to be sampled and analyzed for TCLP (\$110)," the bins I feel we should be able to take 1 TCLP analysis for and characterize them as similar. Let me know what you think.

Cheers,

**Jackie Rowley**  
**Geologist**

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BIN DETAILS				SAMPLING DETAILS		COST DETAILS		
No.	Bin Number	EPA 8260C-TCLP	EPA-8260 Totals	Exceedances Based on the 20x Rule (Totals:Max. Concentration Limit)	Costs for Disposal	Cost of Transportation	These bins need to be sampled and analyzed for TCLP (\$110)	Remaining Costs
1	RFR279684	X	X	1,1-Dichloroethene, Benzene, Carbon tetrachloride, Trichloroethene, Vinyl Chloride	\$14,080.00	\$1,550.00		Costs to ship 2 bins to Kimball, including TCLP test cost.
2	CHRT27421	Needs TCLP VOC's and Metals	X	Vinyl Chloride (6:4), Chromium (590:100)	\$14,080.00	\$1,550.00	\$110.00	\$31,370.00
1	PT3017-2	Needs TCLP Metals	X	Chromium (160:100)	\$2,960.00	\$1,325.00	\$110.00	Costs to ship 7 bins to Deer Trail including TCLP test costs.
2	PT3129		X	Chromium (110:100)	\$2,960.00	\$1,325.00		
3	PT5630	Needs TCLP Metals	X	Chromium (430:100)	\$2,960.00	\$1,325.00	\$110.00	
5	RFR279853	X	X	Vinyl Chloride (5.5:4)	\$2,960.00	\$1,325.00		
4	HT2645				\$2,960.00	\$1,325.00		
5	HT3115				\$2,960.00	\$1,325.00		
6	CHRT26308				\$2,960.00	\$1,325.00		
7	CHRT27516				\$2,960.00	\$1,325.00		\$34,500.00
1	CHRT25418		X	1,1-Dichloroethene (42:13), 1,2-Dichloroethene (22:10), Benzene (29:10), Carbon tetrachloride (49:10), Tetrachloroethene (22:10), Trichloroethene (22:10), Vinyl Chloride (54:4)	\$704.00	\$196.00		
2	CHRT25461	Needs TCLP VOC's	X	1,1-Dichloroethene (44:14), 1,2-Dichloroethene (22:10), Benzene (30:10), Carbon tetrachloride (51:10), Tetrachloroethene (31:13), Trichloroethene (23:10), Vinyl Chloride (57:4)	\$704.00	\$196.00	\$110.00	
3	CHRT26993		X	1,1-Dichloroethene (35:14), 1,2-Dichloroethene (18:10), Benzene 24:10), Carbon tetrachloride (41:10), Tetrachloroethene (25:14), Trichloroethene (19:10), Vinyl Chloride (45:4)	\$704.00	\$196.00		
4	CHRT27407		X	1,1-Dichloroethene (35:14), 1,2-Dichloroethene (18:10), Benzene (24:10), Carbon tetrachloride (40:10), Tetrachloroethene (24:14), Trichloroethene (18:10), Vinyl Chloride (45:4)	\$704.00	\$196.00		
5	DRT4900	Needs TCLP VOC's	X	1,1-Dichloroethene (92:14), 1,2-Dichloroethene (47:10), Benzene (63:10), Carbon tetrachloride (110:10), Tetrachloroethene (65:14), Trichloroethene (48:10), Vinyl Chloride (120:4)	\$704.00	\$196.00	\$110.00	
6	PT1096		X	1,1-Dichloroethene (39:14), 1,2-Dichloroethene (20:10), Benzene (27:10), Carbon tetrachloride (45:10), Tetrachloroethene (27:14), Trichloroethene (20:10), Vinyl Chloride (50:4)	\$704.00	\$196.00		
7	PT3652		X	1,1-Dichloroethene (45:14), 1,2-Dichloroethene (23:10), Benzene (31:10), Carbon tetrachloride (52:10), Tetrachloroethene (31:14), Trichloroethene (24:10), Vinyl Chloride (57:4)	\$704.00	\$196.00		
8	PT5627		X	1,1-Dichloroethene, 1,2 (44:14)-Dichloroethene (22:10), Benzene (30:10), Carbon tetrachloride (51:10), Tetrachloroethene (31:14), Trichloroethene (23:10), Vinyl Chloride (56:4)	\$704.00	\$196.00		
9	RT4543-2	Needs TCLP VOC's	X	1,1-Dichloroethene (47:14), 1,2-Dichloroethene (24:10), Benzene (32:10), Carbon tetrachloride (54:10), Tetrachloroethene (33:14), Trichloroethene (25:10), Vinyl Chloride (60:4)	\$704.00	\$196.00	\$110.00	



10	PT2489		X	1,1-Dichloroethene, 1,2 (37:14)- Dichloroethene (19:10), Benzene (26:10), Carbon tetrachloride (43:10), Tetrachloroethene (26:14), Trichloroethene (20:10), Vinyl Chloride (48:4) (020518); Chromium only (120:100) (030118)	\$704.00	\$196.00	
11	CHRT26830	Needs TCLP VOC's		1,1-Dichloroethene (84:14), 1,2- Dichloroethene (43:10), Benzene (58:10), Carbon tetrachloride (98:10), Tetrachloroethene (59:14), Trichloroethene (54:10), Vinyl Chloride (110:4)	\$704.00	\$196.00	\$110.00
12	PT2452	Needs TCLP VOC's	X	1,1-Dichloroethene (18:14), Benzene (13:10), Carbon Tetrachloride (21:10), Vinyl chloride (24:4)	\$704.00	\$196.00	\$110.00
13	CHRT26964		X	1,1-Dichloroethene (18:14), Benzene (12:10), Carbon Tetrachloride (21:10), Vinyl Chloride (23:4)	\$704.00	\$196.00	
14	CHRT24778	Needs TCLP VOC's and Metals	X	Vinyl Chloride (5.7:4), Chromium (110:100)	\$704.00	\$196.00	\$110.00
15	CHRT27438		X	Vinyl Chloride (11:4)	\$704.00	\$196.00	\$110.00
16	CHRT25541			Vinyl Chloride (11:4)	\$704.00	\$196.00	
17	CHRT25520		X	Vinyl Chloride (11:4)	\$704.00	\$196.00	
18	CHRT25556		X	Vinyl Chloride (11:4)	\$704.00	\$196.00	
19	CHRT27391		X	Vinyl Chloride (11:4)	\$704.00	\$196.00	
20	CHRT25725		X	Vinyl Chloride (4.1:4)	\$704.00	\$196.00	\$110.00
21	CHRT26004		X	Vinyl Chloride (5.6:4)	\$704.00	\$196.00	
22	DRT4613		X	Vinyl Chloride (5.5:4)	\$704.00	\$196.00	
23	HT3701		X	Vinyl Chloride (5.3:4)	\$704.00	\$196.00	
24	RFR274961		X	Vinyl Chloride (5.1:4)	\$704.00	\$196.00	
							Cost to ship 24 bins to Front Range including TCLP test costs. \$22,480.00
1	CHRT24497	X	X	1,1-Dichloroethene, Benzene, Carbon Tetrachloride, Tetrachloroethene, Trichloroethene, Vinyl Chloride, Chromium	\$704.00	\$196.00	Totals exceeded, TCLP Passed.
2	CHRT25758	X	X	1,1-Dichloroethene, 1,2-Dichloroethene, Benzene, Carbon tetrachloride, Tetrachloroethene, Trichloroethene, Vinyl Chloride	\$704.00	\$196.00	Totals exceeded, TCLP Passed.
3	PT5631	X	X	1,1-Dichloroethene, 1,2-Dichloroethene, Benzene, Carbon tetrachloride, Tetrachloroethene, Trichloroethene, Vinyl Chloride, Chromium	\$704.00	\$196.00	Totals exceeded, TCLP Passed.
4	RFR279947	X	X	Trichloroethene, Vinyl Chloride	\$704.00	\$196.00	Totals exceeded, TCLP Passed.
5	RFR279964	X	X	Chromium, Tetrachloroethene	\$704.00	\$196.00	Totals exceeded, TCLP Passed.
6	PT5628	X	X	1,1-Dichloroethene, Benzene, Carbon tetrachloride, Vinyl Chloride	\$704.00	\$196.00	Totals exceeded, TCLP Passed.
7	DRT4719	X	X	1,1-Dichloroethene, 1,2-Dichloroethene, Benzene, Carbon tetrachloride, Tetrachloroethene, Trichloroethene, Vinyl Chloride	\$704.00	\$196.00	Totals exceeded, TCLP Passed.
8	DRT4699	X	X	1,1-Dichloroethene, Benzene, Carbon tetrachloride, Vinyl Chloride	\$704.00	\$196.00	Totals exceeded, TCLP Passed.
9	CHRT25696	X	X	1,1-Dichloroethene, 1,2-Dichloroethene, Benzene, Carbon tetrachloride, Tetrachloroethene, Trichloroethene, Vinyl Chloride	\$704.00	\$196.00	Totals exceeded, TCLP Passed.
10	CHRT27116	X	X	Chromium	\$704.00	\$196.00	Totals exceeded, TCLP Passed.
11	CHRT9943	X	X	Vinyl Chloride	\$704.00	\$196.00	Totals exceeded, TCLP Passed.
12	HT3702	X	X	1,1-Dichloroethene, Benzene, Carbon tetrachloride, Vinyl Chloride	\$704.00	\$196.00	Totals exceeded, TCLP Passed.
15	CHRT25534		X	STAY ON SITE?	\$704.00	\$196.00	Costs to ship 12 bins to Front Range now. \$10,800.00
16	CHRT26540		X	STAY ON SITE?	\$704.00	\$196.00	
17	CHRT26766		X	STAY ON SITE?	\$704.00	\$196.00	
18	HT2586		X	STAY ON SITE?	\$704.00	\$196.00	
19	HT3122		X	STAY ON SITE?	\$704.00	\$196.00	
20	HT3703		X	STAY ON SITE?	\$704.00	\$196.00	
21	HT3837		X	STAY ON SITE?	\$704.00	\$196.00	
22	RFR279944	X	X	STAY ON SITE?	\$704.00	\$196.00	
23	RFR279945	X		STAY ON SITE?	\$704.00	\$196.00	
24	RFR279962	X		STAY ON SITE?	\$704.00	\$196.00	
25	RFR280574		X	STAY ON SITE?	\$704.00	\$196.00	
26	HT2621-4			STAY ON SITE?	\$704.00	\$196.00	Cost of remaining 13 bins that may be saved if some can stay on site.

27	RFR274934			STAY ON SITE?	\$704.00	\$196.00		\$11,700.00
TOTAL COSTS FOR DISPOSAL CURRENTLY								\$56,980.00
1	PT5626-2							
1	HT2621							
2	HT2621-2							
3	HT2621-3							
4	PT5626							
5	PT3017							
6	RT4543							
7	PT3017							